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DMC-GH1

Micro System Digital Camera

- LUMIX G Micro System - Interchangeable Lens Digital Camera
- Full-HD movie recording in AVCHD format
- High image quality with 12.1-megapixel Live MOS sensor and Venus Engine HD
- New high-performance kit lens for outstanding HD movies LUMIX G VARIO HD 14-140mm/F4.0-5.8 ASPH./MEGA O.I.S.
- Creative Movie mode to enjoy the freedom of manual settings
- iA (Intelligent Auto) Mode with Face Recognition and Contrast AF system
- Four Thirds adaptability – Multiplying photographic possibilities

LUMIX G Micro System Digital Camera GH1 - Creative HD Hybrid with photo quality of DSLR and Full-HD movie

TYPE

Camera Type	Digital interchangeable lens system camera
Recording media	SD memory card, SDHC memory card
Image sensor size	17.3 x 13.0 mm
Mount	Micro Four Thirds mount

IMAGE SENSOR

Type	Live MOS Sensor
Total pixels	14.0 Megapixels
Camera effective pixels	12.1 Megapixels
Colour filter	Primary colour filter
Dust reduction system	Supersonic wave filter

RECORDING SYSTEM

Recording file format	Still Image: JPEG(DCF, Exif 2.21), RAW, DPOF compatible Still Image with Audio: JPEG(DCF, Exif 2.21) + Quicktime Motion Image: AVCHD / QuickTime Motion JPEG
Aspect ratio	4:3, 3:2, 16:9, 1:1 (Multi-aspect recording except 1:1)

File size(Pixels)

Still Image	[4:3] 4000 x 3000(L), 2816 x 2112(M), 2048 x 1536(S) [3:2] 4128 x 2752(L), 2928 x 1952(M), 2064 x 1376(S)

2009 AWARDS TIPA BEST DESIGN INNOVATION

Award

2009-04-21T11:52:00

Panasonic Lumix G Series, TIPA Award for Best Design Innovation in Europe 2009

PHOTOGRAPHY BLOG HIGHLY RECOMMENDED

Award

2009-06-12T10:58:00

DMC-GH1, Photography Blog (Online), Highly Recommended Award, June 2009

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	[16:9] 4352 x 2448(L), 3072 x 1728(M), 1920 x 1080(S) [1:1] 2992 x 2992(L), 2112 x 2112(M), 1504 x 1504(S)
Motion Image	Motion Jpeg [4:3] QVGA : 320 x 240, 30fps / VGA : 640 x 480, 30fps Motion Jpeg [16:9] WVGA : 848 x 480, 30fps Motion Jpeg [HD] 1280 x 720, 30fps AVCHD NTSC [Full HD] 1920 x 1080, 60i (sensor output is 24fps)(FHD: 17Mbps) AVCHD NTSC [HD] 1280 x 720, 60p (SH: 17Mbps, H: 13Mbps, L: 9Mbps) AVCHD PAL [Full HD] 1920 x 1080, 50i (sensor output is 25fps)(FHD: 17Mbps) AVCHD PAL [HD] 1280 x 720, 50p (SH: 17Mbps, H: 13Mbps, L: 9Mbps)
Image quality	RAW, RAW+Fine, RAW+Standard, Fine, Standard
Colour space	sRGB, Adobe RGB

VIEWFINDER

Type	Live View Finder (1,440,000 dots equivalent)
Field of view	Approx. 100%
Magnification	Approx. 1.4x / 0.7x (35mm camera equivalent) with 50mm lens at infinity; -1.0 m-1
Eye point	Approx.17.5mm from eyepiece lens
Diopter adjustment	-4.0 ~ +4.0 m-1

AUTO FOCUS

Type	Contrast AF system
Focusing mode	AFs/AFc/MF
AF mode	Face detection/ AF Tracking / 23-area-focusing / 1-area-focusing
AF detective range	EV 0-18 (F3.5 lens, ISO 100)
AF assist lamp	yes
AF lock	AF/AE LOCK button or Shutter button halfway pressed in AFs mode
Others	Pre AF (Quick AF/Continuous AF), AF+MF, MF Assist (5x, 10x)

EXPOSURE CONTROL

Light metering system	144-zone multi-pattern sensing system
Light metering mode	Intelligent Multiple / Center Weighted / Spot
Metering range	EV 0-18 (F2.0 lens, ISO 100)
Exposure mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
ISO sensitivity	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / Intelligent ISO
Exposure compensation	1/3EV Step ±3EV
AE lock	AF/AE LOCK button or Shutter button halfway pressed
AE bracket	3,5,7 frame, in 1/3 or 2/3 EV Step, ±2 EV

WHITE BALANCE

White balance	Auto / Daylight / Cloudy / Shade / Halogen / Flash / White Set 1,2 / Color temperature setting

What Digital Camera RECOMMENDED

Award

2009-08-09T16:38:00

DMC-GH1, What Digital Camera, Recommended Award, August 2009

dpreview.com Highly Recommended

Award

2009-06-13T12:07:00

DMC-GH1, DP Review, Highly Recommended Award, June 2009

HIGHLY RECOMMENDED CAMERA LABS.com

Award

2009-07-13T12:20:00

DMC-GH1, Camera Labs, Highly Recommended Award, July 2009

Award

2009-08-15T09:50:00

DMC-GH1, EISA Award, European Multimedia Camera 2009-2010, August 2009

Award

2009-09-01T15:00:00

DMC-GH1, Computer Shopper, 5 Stars Award, September 2009

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White balance adjustment	Blue/amber bias, Magenta/green bias
Color temperature setting	2500-10000K in 100K
White balance bracket	3 exposures in blue/amber axis or in magenta/green axis

SHUTTER SYSTEM

Type	Focal-plane shutter
Shutter speed	Still Images: 1/4000 ~ 60 and Bulb (up to approx. 4minutes)
Self timer	2sec / 10sec / 10sec, 3 images
Remote control	Remote control with bulb function by DMW-RSL1 (Optional)

SCENE MODE

Movie SCN mode	Portrait Scenery Sports Low Light Close-up (Flower/Food/Objects/Macro) SCN (Sunset/Party/Portrait) (Activated by selecting Still Image SCN mode then pressing Movie Button. Still Image SCN modes without corresponding Movie SCN mode is recorded in Normal mode.)
Still Image SCN mode	Portrait (Normal/Soft Skin/Outdoor/Indoor/Creative) Scenery (Normal/Nature/Architecture/Creative) Sports (Normal/Outdoor/Indoor/Creative) Close-up (Flower/Food/Objects/Creative) Night Portrait (Night Portrait/Night Scenery/Illuminations/Creative) SCN (Sunset/Party/Baby 1,2/Pet)

BURST SHOOTING

Burst speed	3 frames/sec (High speed) or 2 frames/sec (Low speed)
Number of recordable images	7 images (when there are RAW files with the particular speed) Unlimited consecutive shooting (when there are no RAW files) (depending on memory card size, battery power, picture size, and compression)

BUILT-IN-FLASH

Type	TTL Built-in-Flash, GN11 equivalent (ISO 100 ·m), Built-in Pop-up
Built-in flash(Mode)	Auto, Auto/Red-eye Reduction, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off
X-Sync(Synchronization) speed	Less than 1/160 second
Flash output adjustment	1/3EV Step ±2EV
Flash synchronization	1st. Curtain Sync, 2nd Curtain Sync.
Hot shoe	TTL Auto with FL220/FL360/FL500(Optional)

LCD MONITOR

Type	Low temperature Polycrystalline TFT LCD
Monitor size	Free-angle 3.0inch / 3:2 Aspect / Wide viewing angle
Pixels	460K dots

Award

2009-09-01T15:03:00

DMC-GH1, What Digital Camera, Gold Award, September 2009

Award

2009-09-08T17:48:00

DMC-GH1, Digital Camera Essentials, Editor's Choice Award, issue 88

Award

2009-11-29T11:41:00

DMC-GH1, Camcorder Buyer HD Ready, Editor's Choice Award, November 2009

Award

2009-10-16T15:33:00

DMC-GH1, Digital Camera magazine, Editor's Choice Award, Autumn 2009

Award

2009-11-30T12:40:00

DMC-GH1, Register Hardware, Recommended Award, November 2009

H-VS014140

H-F007014

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Filed of view	Approx. 100%
Monitor adjustment	Auto, Power LCD, Manual (7 levels)
OSD language	English,German,French,Italian,Spanish,Japanese

LIVE VIEW

Digital zoom	2x, 4x
Extra optical zoom	Max.2x (Not effective with L size recording. Magnification ratio depends on the recording pixels and aspect ratio.)
Real-time Histogram	YES
Guide Lines	Guide Lines (3 patterns)

FILM MODE

Colour	Standard / Dynamic / Nature / Smooth / Nostalgic / Vibrant
Black and white	Standard / Dynamic / Smooth
Others	My Film1 / My Film2 / Multi Film

PLAYBACK

Playback mode	Normal playback 30-thumbnail display 12-thumbnail display Calendar display Zoomed playback (16x Max.) Slideshow (duration & effect is selectable) Playback Mode (Normal/Picture/AVCHD/Motion JPEG/Face Recognition/Favorite) Title Edit Text Stamp Resize Trimming Aspect Conversion Rotate Rotate Display Print Set Protect Audio Dubbing

PROTECTION / ERASE

Protection	Single / Multi or Cancel
Erase	Single / Multi / All / Except Favorite

DIRECT PRINT

Print	PictBridge compatible(Print size, Layout, Date setting is selectable)

INTERFACE

HDMI	miniHDMI TypeC (1.3b corresponding) Video: Auto / 1080i / 720p / 480p (576p in PAL system) Audio: Dolby® Digital Stereo Creator
USB	USB 2.0 High Speed

H-F007014E

H-FS014045E

H-FS045200E

H-ES045E

H-H020E

L-ES014050E

L-X025E

L-RS014050E

L-RS014150E

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Speaker	YES
Microphone	Stereo, Wind-cut: Off / Low / Standard / High
Remote/External microphone input	φ2.5mm. stereo mini jack
Audio video output	Stereo Type, NTSC/PAL, NTSC only for North America *Check the website of the Panasonic sales company in your country or region for details on the products that are available in your market.

GENERAL DATA

Power

Battery	ID-Security Li-ion Battery Pack (7.2V, 1250mAh) (Included) Battery Charger/AC Adapter (Input: 110-240V AC, DC Cable is required)
Battery life	Still Images CIPA Standard : Approx. 300 images(LCD) LVF : Approx. 320 images with LUMIX G VARIO HD 14-140mm/F4.0-5.8 ASPH./MEGA O.I.S. Motion Images Approx. 120 minutes (LCD) Recording time capacity in AVCHD SH mode

Dimensions [mm]

Width	124.0
Height	89.6
depth	45.2
Weight	Approx. 385g / 13.58 oz (Body only)

Operating Condition

Operating temperature	0 dig.C to 40 dig.C (32 dig.F to 104 dig.F)
Operating humidity	10% to 80%

Standard Accessories

Software	PHOTOfunSTUDIO 3.1 HD Edition SILKYPIX® Developer Studio 3.0 SE USB Driver
Standard accessories	Battery Charger AC Adapter Battery Pack Body Cap AV Cable USB Connection Cable AC Cable DC Cable Shoulder Strap CD-ROM

Interchangeable Lens-1

Lens Construction	17 elements in 13 groups (4 Aspherical lenses, 2 ED lenses)
Mount	Micro Four Thirds mount
Optical Image Stabilizer	YES

DMW-MA1E

DMW-MA2ME

DMW-MA3RE

DMW-LPL62E

DMW-FL500E

DMW-FL360E

DMW-FL220E

DMW-MS1E-K

DMW-RSL1E

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Focal Length	f=14mm to 140mm (35mm camera equivalent 28mm to 280mm)
Aperture Type	7 diaphragm blades / Circular aperture diaphragm
Aperture	F4.0(Wide) - F5.8(Tele)
Minimum Aperture	F22
Closest Focusing Distance	0.50m / 1.64ft at all focal lengths
Maximum magnification	Approx. 0.2x / 0.4x (35mm camera equivalent)
Diagonal Angle of View	75 dig(W)-8.8 dig(T)

GENERAL DATA

Filter Size	φ62mm / 2.44 in
Max. Diameter	φ70mm / 2.76 in
Overall Length	Approx. 84mm / 3.31 in (from the tip of the lens to the base side of the lens mount)
Weight [g]	Approx. 460g
Weight [oz]	Approx. 16.23oz
Standard Accessory	Lens Cap Lens Hood Lens Rear Cap Lens Storage Bag

Interchangeable Lens-2

DMW-BLB13E

DMW-SSTG1-A

DMW-SSTG1-C

DMW-SSTG1-R

DMW-SSTG1E-A

DMW-SSTG1E-C

DMW-SSTG1E-K

DMW-SSTG1E-R

DMW-SSTG2

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DMW-SSTG2E-W

DMW-SSTG3

DMW-SSTG3E-T

DMW-BAG1E

DMW-BAG1E-K

DMW-CZ18E

DMW-CZ18K

RP-CDHM15E-K

RP-CDHM30E-K